

FIG. 1

66600-92202E60

FIG. 2

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

PID VALUE	INFORMATION RECORDED IN A PACKET
0x0000	PAT
0x0001	CAT
0x0002~0x000F	Reserved
0x0010	NIT、ST
0x0011	SDT、BAT、ST
0x0012	EIT、ST
0x0013	RST、ST
0x0014	TDT
0x0015~0x001F	Reserved
0x0020~0x1FFE	PMT, VIDEO/AUDIO DATA STREAM
0x1FFF	Null Packet

FIG. 3

FIG. 4

4/24

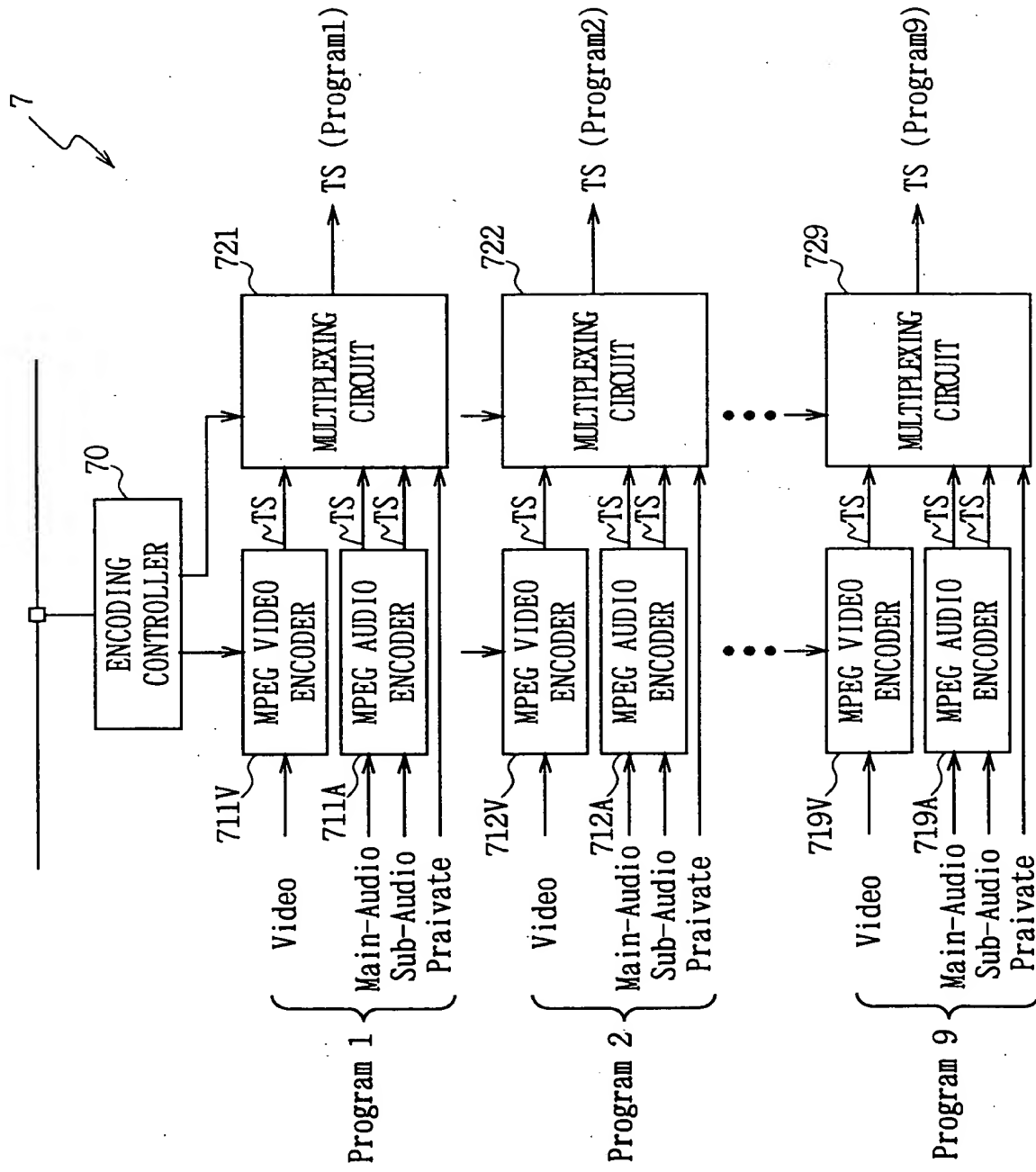


FIG. 5

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

SYNTAX	NUMBER OF BITS	MEMONIC
transport_packet(){		
sync_byte	8	bslbf
transport_error_indicator	1	bslbf
payload_unit_start_indicator	1	bslbf
transport_priority	1	bslbf
PID	13	uimsbf
transport_scrambling_control	2	bslbf
adaptation_field_control	2	bslbf
continuity_counter	4	uimsbf
if(adaptation_field_control=='11' adaptation_field_control=='11'){		
adaptation_filed()		
}		
if(adaptation_field_control=='11' adaptation_field_control=='11'){		
for(i=0;i<N;i++){		
data_byte	8	bslbf
}		
}		
}		

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
RAFTSMAN	

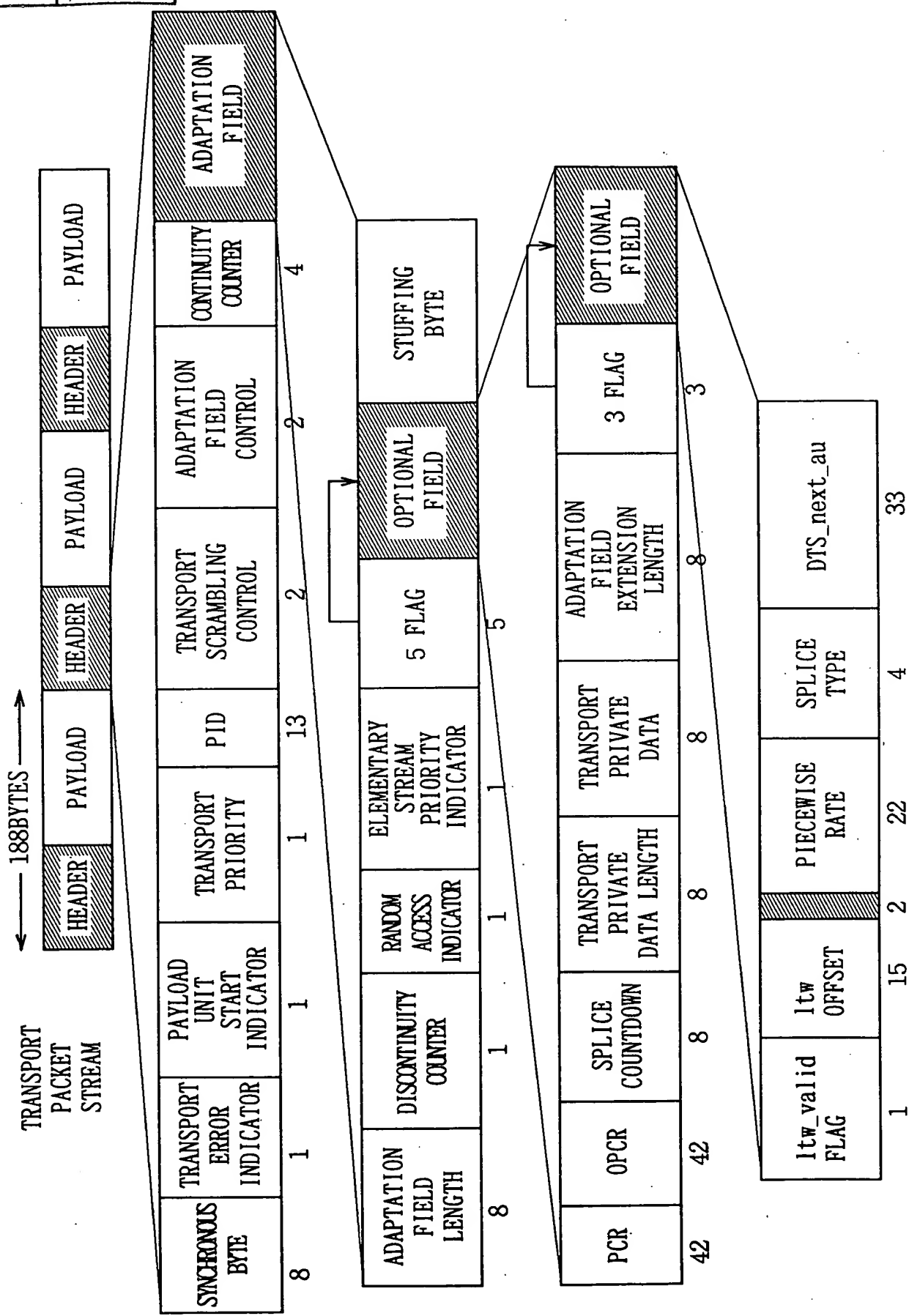
SYNTAX	NUMBER OF BITS	MNEMONIC
adaptation_field(){		
adaptation_field_length	8	uimsbf
if(adaptation_field_length>0){		
discontinuity_indicator	1	bslbf
random_access_indicator	1	bslbf
elementary_stream_priority_indicator	1	bslbf
PCR_flag	1	bslbf
OPCR_flag	1	bslbf
splicing_point_flag	1	bslbf
transport_private_data_flag	1	bslbf
adaptation_field_extension_flag	1	bslbf
if(PCR_flag=='1'){		
program_clock_reference_base	33	uimsbf
reserved	6	bslbf
program_clock_reference_extension	9	uimsbf
}		
if(OPCR_flag=='1'){		
original_program_clock_reference_base	33	uimsbf
reserved	6	bslbf
original_program_clock_reference_extension	9	uimsbf
}		
if(splicing_point_flag=='1'){		
splice_countdown	8	tcimsbf
}		
if(transport_private_data_flag=='1'){		
transport_private_data_length	8	uimsbf
for(i=0;i<transport_private_data_length;i++){		
private_data_byte	8	bslbf
}		
}		
if(adaptation_field_extension_flag=='1'){		
adaptation_field_extension_length	8	uimsbf
ltw_flag	1	bslbf
piecewise_rate_flag	1	bslbf
seamless_splice_flag	1	bslbf

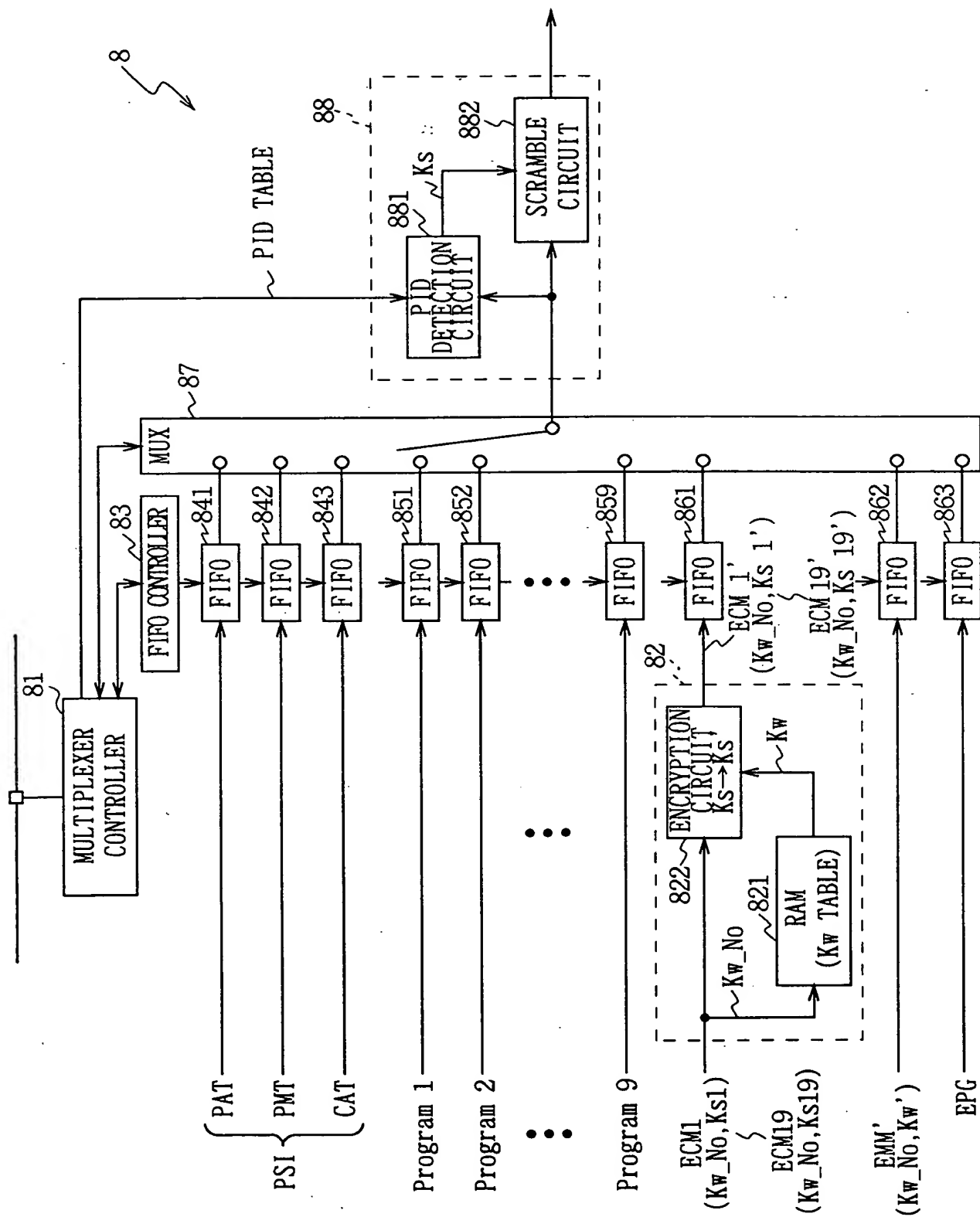
FIG. 7

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

reserved	5	bslbf
if(ltw_flag=='1'){		
ltw_valid_flag	1	bslbf
ltw_offset	15	uimsbf
}		
if(piecewise_rate_flag=='1'){		
reserved	2	bslbf
piecewise_rate	22	uimsbf
}		
if(seamless_splice_flag=='1'){		
splice_type	4	bslbf
DTS_next_AU[32..30]	3	bslbf
marker_bit	1	bslbf
DTS_next_AU[29..15]	15	bslbf
marker_bit	1	bslbf
DTS_next_AU[14..0]	15	bslbf
marker_bit	1	bslbf
}		
for(i=0;i<N;i++){		
reserved	8	bslbf
}		
for(i=0;i<N;i++){		
stuffing_byte	8	bslbf
}		
}		

FIG. 8





APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

STRUCTURE NAME	ASSIGNED PID #	DESCRIPTION
PROGRAM ASSOCIATION TABLE (PAT)	0x00	ASSIGNS PROGRAM NUMBERS AND PROGRAM MAP TABLE PIDs
PROGRAM MAP TABLE (PMT)	ASSIGNED BY PAT	SPECIFIES PIDs FOR COMPONENTS OF MORE THAN ONE PROGRAMS
NETWORK INFORMATION TABLE (NIT)	ASSIGNED BY PAT	PHYSICAL NETWORK PARAMETERS SUCH AS FDM FREQUENCIES AND REPEATER NUMBERS
CONDITIONAL ACCESS TABLE (CAT)	0x01	ASSIGNS UNIQUE PID VALUES TO MORE THAN ONE (PRIVATE) EMM STREAMS, RESPECTIVELY

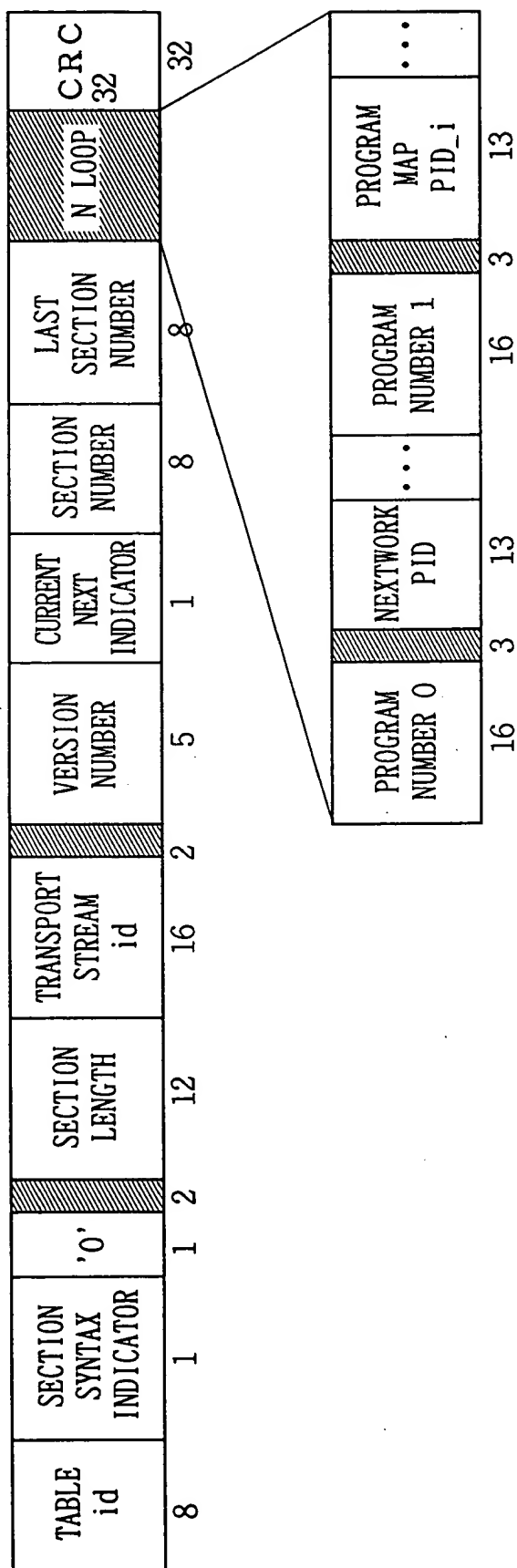
FIG. 11

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

SYNTAX	NUMBER OF BITS	MNEMONIC
program_association section() {		
table_id	8	uimbsf
section_syntax_indicator	1	bslbf
'0'	1	bslbf
reserved	2	bslbf
section_length	12	uimbsf
transport_stream_id	16	uimbsf
reserved	2	bslbf
version_number	5	uimbsf
current_next_indicator	1	bslbf
section_number	8	uimbsf
last_section_number	8	uimbsf
for(i=0; i<N; i++) {		
program_number	16	uimbsf
reserved	3	bslbf
if(program number == '0')		
{		
network_PID	13	uimbsf
}		
else {		
program_map_PID	13	uimbsf
}		
}		
CRC32	32	rpchof
}		

FIG. 12

BY	CLASS	SUBCLASS
DRAFTSMAN		



APPROVED	J.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

VALUE	DESCRIPTION
0x00	PROGRAM ASSOCIATION SECTION
0x01	CONDITIONAL ACCESS SECTION (CA SECTION)
0x02	PROGRAM MAP SECTION
0x03-0x3F	ITU-T RECOMMENDATION H.222.0 ISO/IEC 13818 RESERVED
0x40-0xFE	USER PRIVATE
0xFF	INHIBITED

FIG. 14

00000000-00000000

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
RAFTSMAN		

SYNTAX	NUMBER OF BITS	MNEMONIC
TS_program_map_section() {		
table_id	8	uimsbf
section_syntax_indicator	1	bslbf
'0'	1	bslbf
reserved	2	bslbf
section_length	12	uimsbf
program_number	16	uimsbf
reserved	2	bslbf
version_number	5	uimsbf
current_next_indicator	1	bslbf
section_number	8	uimsbf
last_section_number	8	uimsbf
reserved	3	bslbf
PCR_PID	13	uimsbf
reserved	4	bslbf
program_info_length	12	uimsbf
for(i=0; i<N; i++) {		
descriptor()		
}		
for(i=0; i<N; i++) {		
stream_type	8	uimsbf
reserved	3	bslbf
elementary_PID	13	uimsbf
reserved	4	bslbf
ES_info_length	12	uimsbf
for(i=0; i<N2; i++) {		
descriptor()		
}		
}		
CRC32	32	rpchof
}		

FIG. 15

666080-9420260

APPROVED	D.G. FIG.	
BY	NAME	SUBCLASS
CHAPELAIN		

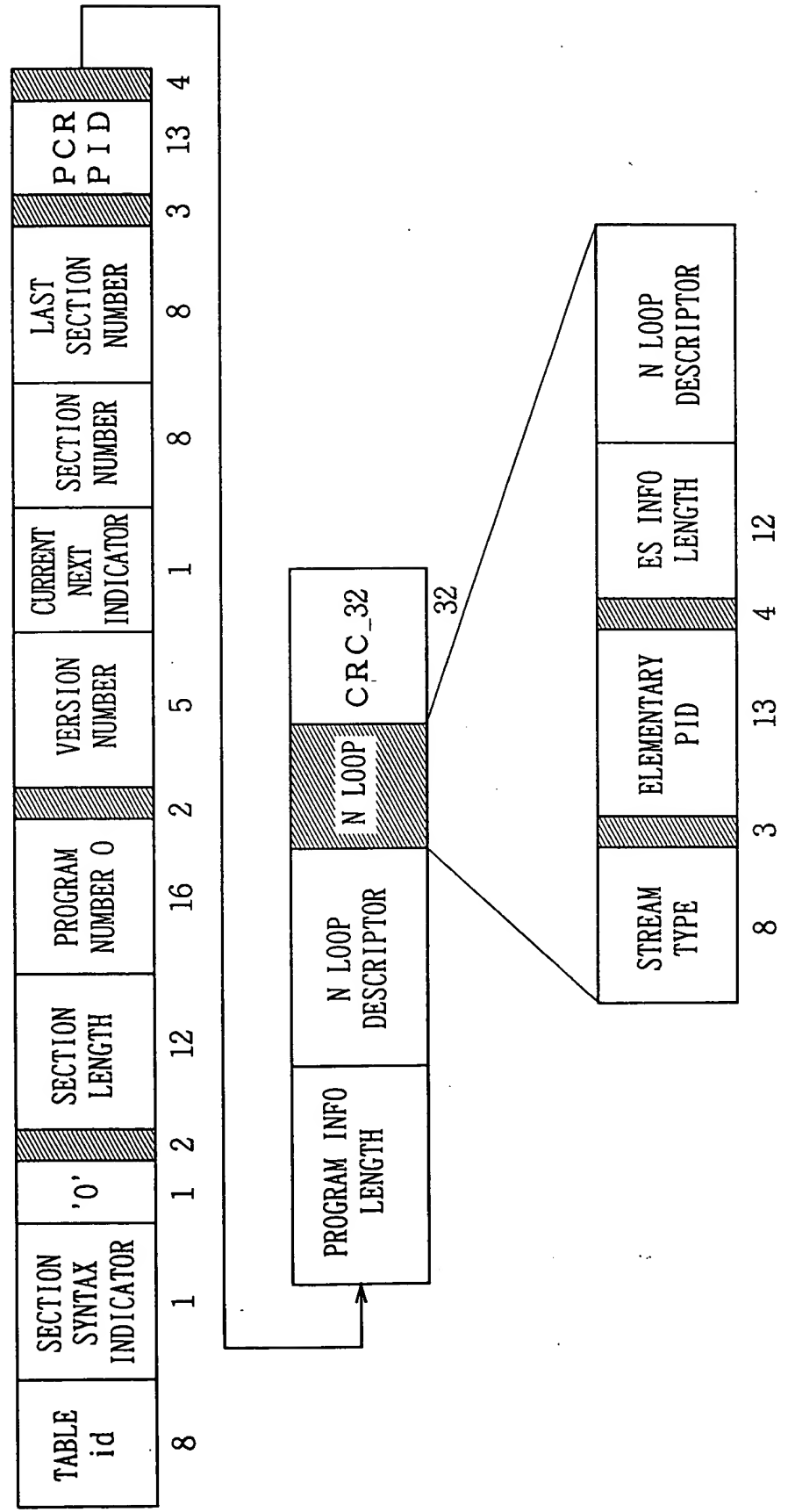


FIG. 16

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

SYNTAX	NUMBER OF BITS	MNEMONIC
CA_section() {		
table_id	8	uimbsf
section_syntax_indicator	1	bslbf
'0'	1	bslbf
reserved	2	bslbf
section_length	12	uimbsf
reserved	18	bslbf
version_number	5	uimbsf
current_next_indicator	1	bslbf
section_number	8	uimbsf
last_section_number	8	uimbsf
for(i=0; i<N;i++) {		
descriptor()		
}		
CRC32	32	rpchof
}		

FIG. 17

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

TABLE id	SECTION SYNTAX INDICATOR	'0'	SECTION LENGTH		VERSION NUMBER	CURRENT NEXT INDICATOR	SECTION NUMBER	LAST SECTION NUMBER	N LOOP DESCRIPTOR	CRC 32
8	1	1	2	12	18	5	1	8	8	32

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

SYNTAX	NUMBER OF BITS	MNEMONIC
CA_descriptor() {		
descriptor_tag	8	uimbf
descriptor_length	8	uimsbf
CA_system_ID	16	uimsbf
reserved	3	bslbf
CA_PID	13	uimsbf
for(i=0; i<N; i++) {		
private_data_byte	8	uimsbf
}		
}		

FIG. 19

666030-9/20/2000

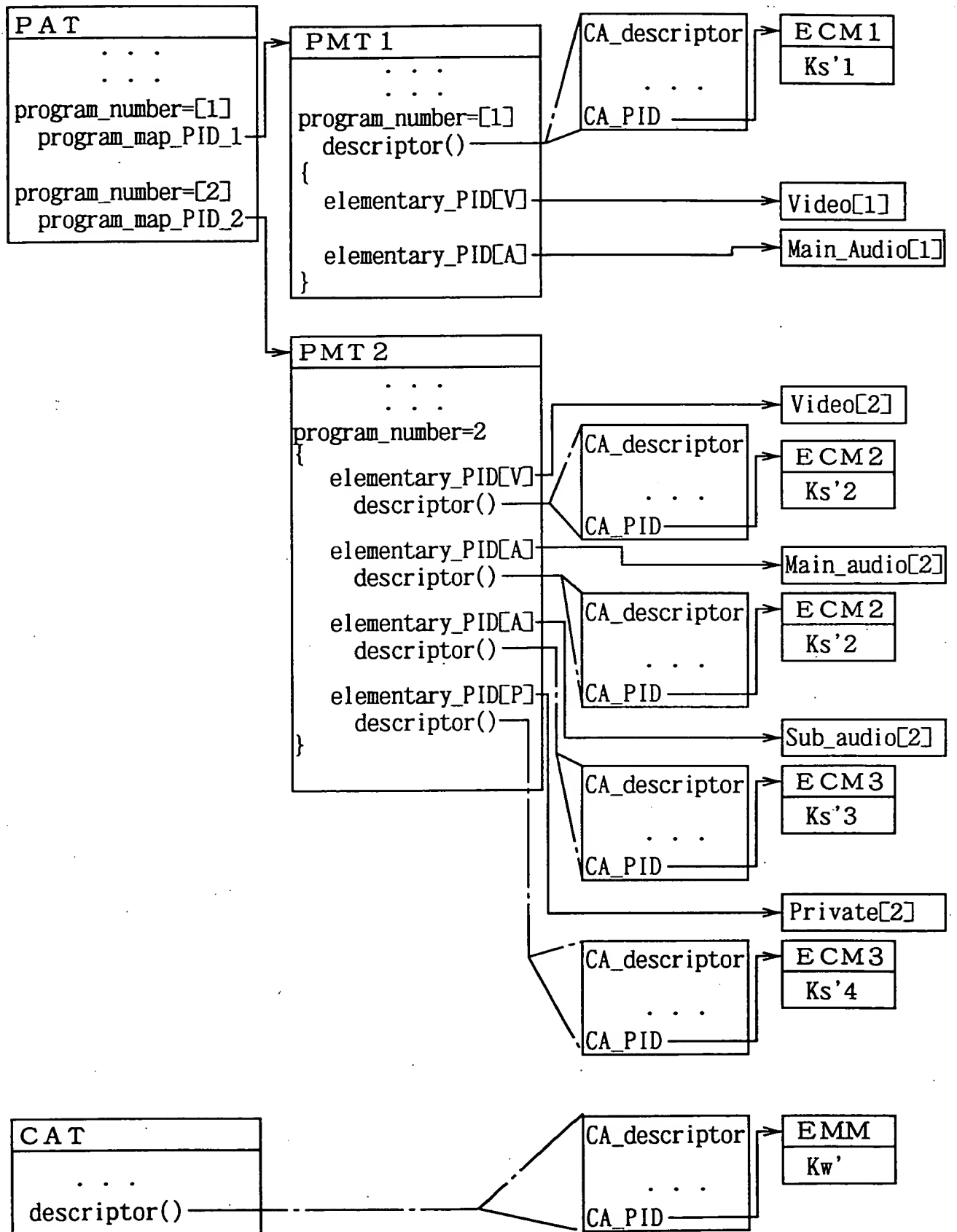


FIG. 20

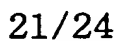


FIG. 21

666030-9402260

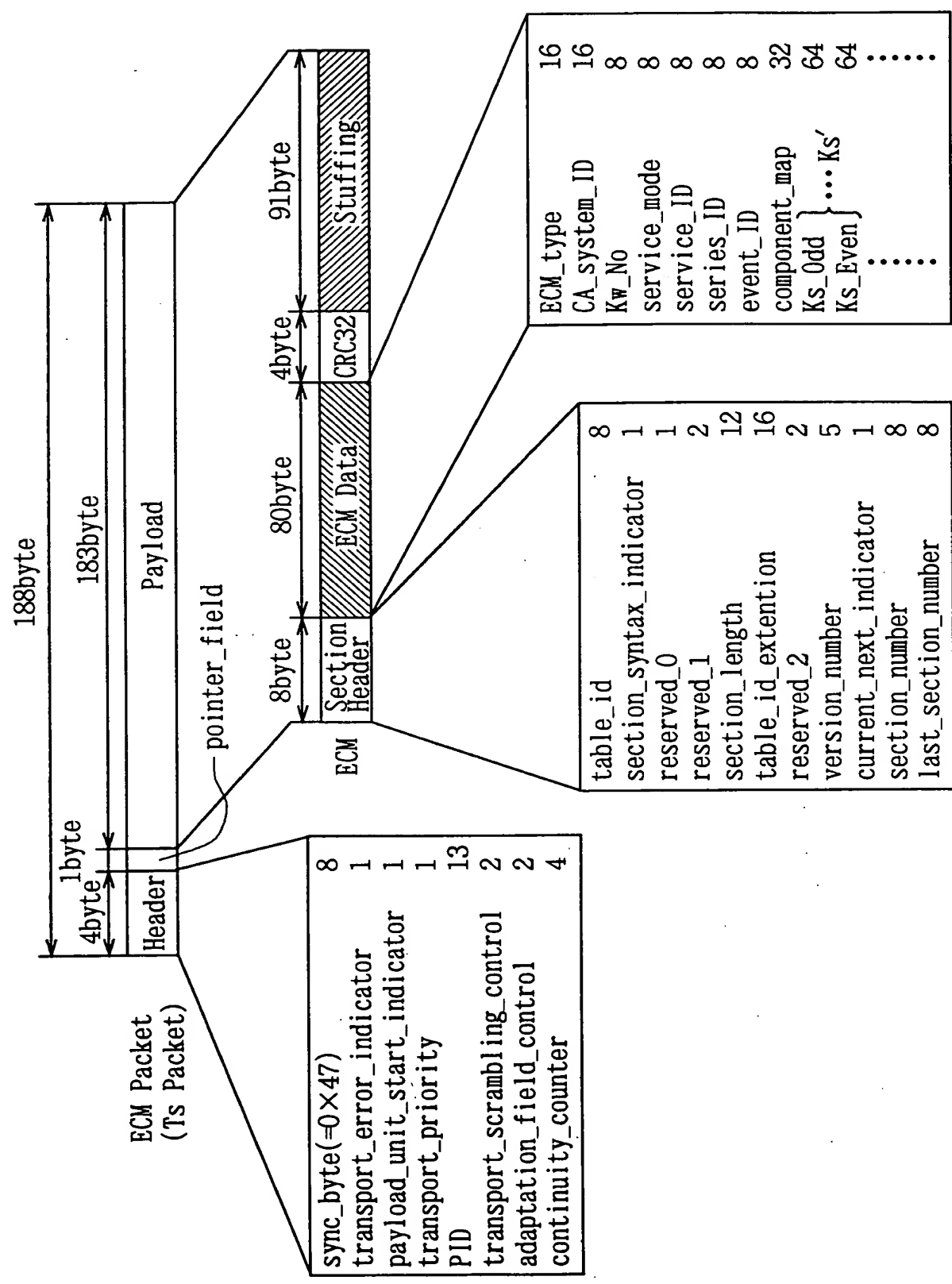


FIG. 22

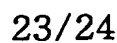


FIG. 23

BEST AVAILABLE COPY

DESCRIPTION OF SYMBOLS

1 ... Broadcast Data Processing System, 2 ... Subscriber Management System, 3 ... Subscriber Authorization System, 4 ... EPG system, 5 ... Server System, 6 ... Routing System, 7 ... Encoding System, 8 ... Multiplexer System, 9 ... Encoder/Multiplexer Control Unit, 10 ... Modulation Circuit, 20 ... IRD, 21 ... Demodulation Circuit, 22 ... Demultiplexer, 24 ... IC Card, 25V, 25A, 25P ... Descrambler, 26V ... MPEG Video Decoder, 26A ... MPEG Audio Decoder, 70 ... Encoding Controller, 241 ... Memory, 242 ... First Decryption Circuit, 243 ... Second Decryption Circuit, 711V through 719V ... MPEG Video Encoder, 711A through 719A ... MPEG Audio Encoder, 721 through 729 ... Multiplexing Circuit, 841 through 863 ... Buffer Memory (FIFO).